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Reference document CN1161971

Claims

1. An ajimycin crystallization, characterized in that it comprises less than 4% of adsorption water at an ambient temperature.

2. An ajimycin crystallization according to claim 1, characterized in that it has the following features: UV-absorption spectrum λmax is 207.7nm; ^{1}H-NMR(CDCl2) δ is 2.28[3'-N(CH3)2], 2.34(9a-NCH3); ^{13}C-NMR(CDCl3) δ is 178.91(C-1), 78.14 and 83.32(C-3, C-5), 36.14(9a-NCH3), 40.34[3'-NC(CH3)2]; IR: testing said ajimycin crystallization using potassium bromide and finding that it has characteristic absorption peaks at 3600-3400cm^{-1}, 3020-2780cm^{-1}, 1719cm^{-1}, 1460-1340cm^{-1}, 1380cm^{-1} and 1200-1000cm^{-1},

3. A process for preparing an ajimicin crystallization according to claim 1, characterized in that said ajimicin crystallization is obtained by dissolving a water-contained ajimicin in the mixture of water soluble organic solvent and water, crystallizing and then drying the resulted mixture.

4. A process according to claim 3, wherein the relative weight ratio of water-contained ajimicin:water:water soluble organic solvent is 1: 30-1000: 9-16.

5. A process according to claim 3 or 4, characterized in that the water soluble organic solvent is selected from the group consisting of ethanol, acetone, iso-propanol, propanol, 1,2-propylene glycol, propionitrile, 2-chlorohydrin, N,N,N',N'-tetramethylurea, N-methylpyrrolidone, allyl alcohol or a mixture thereof.

6. A process according to claim 4, characterized in that the organic solvent is preferably acetone, ethanol or a mixture thereof.

7. A process according to claim 3, characterized in that the drying is vacuum drying for 4 to 5 hours.

LISTING OF CLAIMS:

1. (Previously amended) A[n] non-hygroscopic ethanolate of azithromycin having an ethanol content of about 1.5% to about 3%.

2. (Original) The ethanolate of claim 1, having a water content of about 2% to about 4%.

3. (Original) The ethanolate of claim 2, wherein the water content is between about 2.5% and about 3.5%.

4. (Original) The ethanolate of claim 1, wherein the ethanol content is about 1.5% to about 2.5%.

5. (Original) The ethanolate of claim 4, wherein the water content is about 2% to about 4%.

6. (Previously amended) The ethanolate of claim 5, wherein the water content is between [about 1.5% and] about 2.5% and about 3.5%.

7. (Currently amended) A[n] non-hygroscopic ethanolate of azithromycin having an ethanol content of about 1.5% to about 3% that is characterized by a powder x-ray diffraction pattern substantially as depicted in FIG. 2.

8-40. (Canceled)